

~~SECRET~~

NPIC/TSSG/DED-1547-69
25 March 1969

MEMORANDUM FOR: Chief, Technical Services & Support Group
THROUGH: Chief, Development & Engineering Division, TSSG
SUBJECT: Investigation of Replacement Pumps and Components for
the Beacon Precision Enlarger

25X1 1. Since delivery by [] of the seven Beacon Precision
25X1 Enlargers (BPE) to the various components who purchased them, several
operational deficiencies have shown up; one of the main ones being the
fluid pumps. [] is fully aware of this deficiency and has replaced
several pumps and pump components (none on NPIC's enlarger).

2. In a telephone conversation with [] on
18 March 1969, he suggested that an effort be made to investigate and
experiment with other type pumps in order to find a more reliable
replacement. He further suggested a [] effort be funded under AL-14
for this investigation. 25X1
25X1

3. Discussion of this matter with PSG/RGD revealed that their
problem is not the pump per se, but is the fluid injection method at
the film gate which causes bubbles which then remain between the film
and gate glass. This, [] claims, requires three times longer than
is necessary to produce a bubble-free exposure. Queries of other agencies
verify that they too are plagued with this operational problem and would
like to see it remedied. 25X1
25X1

4. It is recommended that [] be tasked, under AL-14, to include
the investigation of a better fluid injection system parallel with the
replacement pump investigation and that additional time and cost estimates
be obtained.

[]
TSSG/DED/R&DBr-I 25X1

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(25 MAR 69)

Declass Review
by NIMA/DOD

GROUP 1
Excluded from automatic
downgrading and
declassification